



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0698/S, REVISION 0

400 Seventh St., S.W.
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - AEA Technology QSA, Inc. Model X2083 (Manufactured on or after October 12, 1992).
2. Source Description - Cylindrical double encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 5.1 mm (0.2 in.) in diameter and 12.3 mm (0.48 in.) in length. Minimum wall thickness of the outer encapsulation is 0.5 mm (0.02 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61711, Rev. A.
3. Radioactive Contents - No more than 30.0 GBq (811.0 mCi) of Californium-252. The Cf-252 is in metallic form.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires February 28, 2010.

1 "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

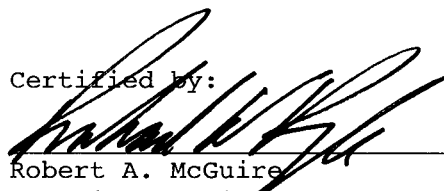
2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

(- 2 -)

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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated January 25, 2005 submitted by AEA Technology QSA, Inc., Burlington, MA, and in consideration of other information on file in this Office.

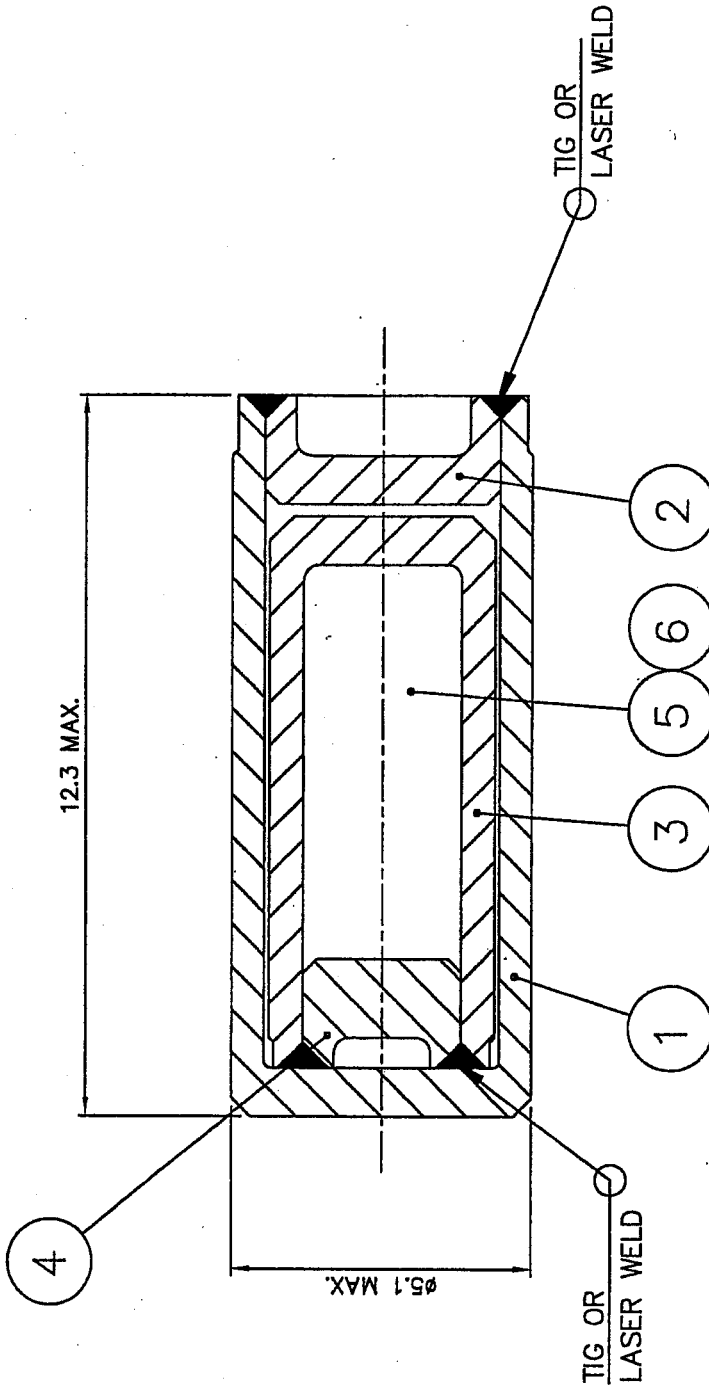
Certified by:


Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety


FEB -4 2005

(DATE)

Revision 0 - Original issue.



ITEM	DESCRIPTION	QTY
1	SHEATH BODY STAIN.STL	1
2	SHEATH LID STAIN.STL	1
3	CELL BODY STAIN.STL	1
4	CELL LID STAIN.STL	1
5	ACTIVE MATERIAL	A/R
6	CERAMIC FIBRE (OPTIONAL)	A/R

		DESCRIPTIVE DRAWING	
40 NORTH AVE, BURLINGTON, MA 01803			
TITLE X2083 CAPSULE ASSEMBLY		REV A	
SIZE A	DWG. NO. RBA61711	SHEET 1 OF 1	
APPROVALS		SCALE: NONE	
<i>[Signature]</i>	<i>[Signature]</i>	DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES:	
X ±0.5 XX ±0.1 XXX ±0.05 ANGULAR ±5°	INTERNAL $\frac{N}{V}$ EXTERNAL $\frac{N}{V}$	975	

ERF # 975